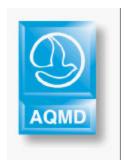


## CEC Siting Committee Workshop

### Emission Offset Availability for Siting of New Power Plants

February 14, 2001

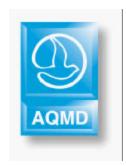
Mohsen Nazemi, P.E.
Assistant Deputy Executive Officer
South Coast Air Quality Management District



#### Emission Offset Requirements

Applies to New, Modified or Relocated Sources

- Federal Clean Air Act
- California State Clean Air Act
- SCAQMD's New Source Review Rules



#### SCAQMD Attainment Status

<u>Pollutant</u>	<u>Federal</u>	<u>State</u>
Ozone	Extreme Non- attainment	Extreme Non- attainment
СО	Serious Non- attainment	Serious Non- attainment
PM-10	Serious Non- attainment	Non-attainment
NO2	Attainment	Attainment
SOx	Attainment	Attainment
Lead	Attainment	Attainment

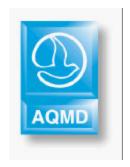


#### Federal CAA Offset Requirements

\* Major Source Definitions - (tons per year)

Pollutant	SOCAB	<u>SSAB</u>	<u>MDAB</u>
VOC	10	25	100
Nox	10	25	100
SOx	100	100	100
PM-10	70	70	100
CO	50	100	100

Offset Ratio of 1.5 to 1.0



#### California CAA Offset Requirements

All Sources in Extreme Non-

Attainment areas

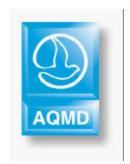
No Net Emission Increase

Offset Ratio of 1.0 to 1.0



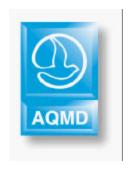
#### SCAQMD's Offset Requirements

- New Source Review Rules
- Offset ratio of 1.2 to 1.0
  - Emission Offsets (ERCs or RTCs)
  - Exemptions (<4TPY, etc.)</li>
- Interpollutant Trading
- Inter-District Trading



#### SCAQMD ERC Inventory

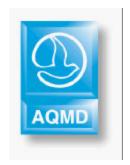
Pollutant	Available (lbs/day)	Amount Purchased for New Power Generation (lbs/day)	Amount of Inter-District Transfers (lbs/day)
ROG	19,062	4,896	3,689
NOx	1,104	0	0
SOx	616	1,002	0
CO	3,952	2,056	0
PM-10	1,156	963	0



#### Average ERC Transaction Costs - (\$/ton/year)

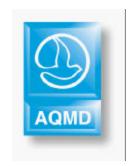
Pollutant	1997	1998	1999	2000	2001*
ROG	\$4,099	\$3,868	\$3,938	\$5,399	\$8,154
NOx	\$12,274	\$21,233	\$25,749	\$39,280	\$54,520
SOx	\$0.0	\$10,353	\$9,200	\$14,069	\$15,781
CO	\$3,495	\$2,851	\$3,254	\$3,764	\$5,573
PM-10	\$10,713	\$14,155	\$12,415	\$21,150	\$44,749

<sup>\*</sup>Average Price through February 2001

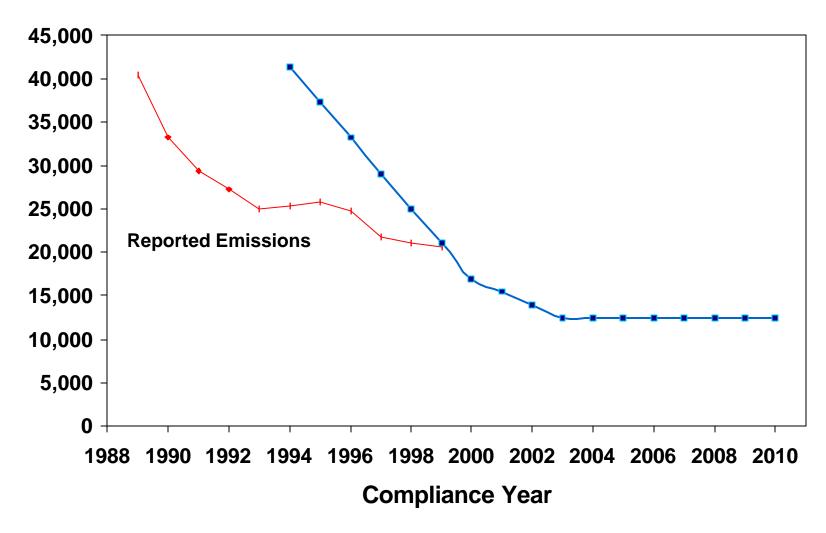


#### SCAQMD's RECLAIM Requirements for New Power Plants

- Existing RECLAIM Rules
  - RTCs for 1st year of operation
- Proposed Amended RECLAIM Rules
  - Power Plant or Non-Power Plant Universe
  - RTCs or AQIP



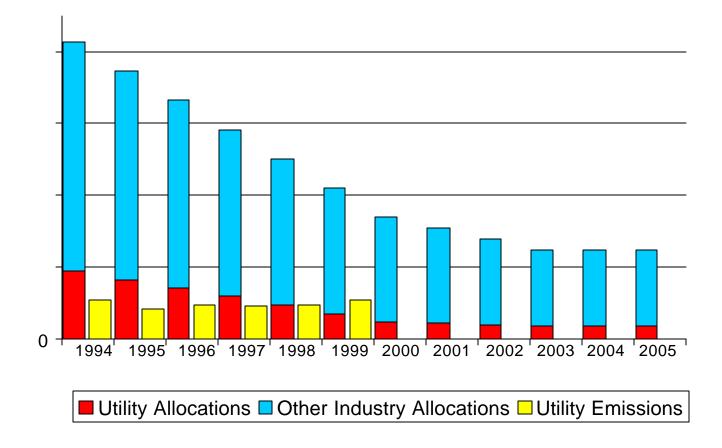
#### RECLAIM Facilities RTC Allocations vs. NOx Emissions





# Initial RECLAIM and Power Plants Allocations vs. Power Plants' NOx Emissions







#### Annual Average RTC Price

